OIL INDIA LIMITED

(A Govt. of India Enterprise)
4, India Exchange Place,
Kolkata – 700 001.

OIL INDIA LIMITED invites indigenous competitive bid through its e-procurement portal – https://etender.srm.oilindia.in/sap/bc/gui/sap/its/bbpstart/! for the following e-Tenders :-

Srl. No.	E-tender	Bid Closing Date	Materials Description
1	SKI1089P14	15-11-2013	Submersible Pump sets.
2	SKI1092P14	15-11-2013	Extended Exhaust Muffler with Scaffolding.
3	SKI1099P14	15-11-2013	Diesel Engine Driven Drenching Pump sets.
4	SKI1100P14	15-11-2013	Trailer Fire Pumps.
5	SKI1101P14	15-11-2013	Positive Displacement Screw Pump.
6	SKI1102P14	15-11-2013	Diesel Engine Driven Progressive Cavity Pumps.
7	SKI1103P14	15-11-2013	Progressive Cavity Screw Pumps.
8	SKI1106P14	15-11-2013	Potassium Urea Based Dry Chemical Powder.
9	CKI1097P14	08-11-2013	Transportation of Explosive Cargo by suitable Explosive Vans.
10	SKI1098P14	15-11-2013	Memento for Retiring Employees Silver Salver.
11	SKI1096P14	15-11-2013	Electronic Time Cycle Controller.

2.0 Application showing full address / e-mail address with Tender fee (non-refundable) of **₹ 1000.00** per tender except Srl. No. 9, Tender No. CKI1097P14 where tender fee is ₹ 2000.00 (excepting PSU and SSI units registered with NSIC) by Demand Draft in favour of M/s. Oil India Limited payable at Kolkata and to be sent to **Head-Calcutta Branch**, Oil India Limited, 4, India Exchange Place, Kolkata – 700 001 only. Application shall be accepted only upto one week prior to Bid Closing Date. The envelope containing the application for participation should clearly indicate **"REQUEST FOR ISSUE OF USER ID AND PASSWORD FOR E-TENDER NO."** for easy identification and timely issue of authorisation. On receipt of requisite tender fee, USER_ID and initial PASSWORD will be communicated to the bidder (through-e-mail) and will be allowed to participate in the tender through OIL's e-Procurement portal. No physical tender documents will be provided. **Details of NIT can be viewed using "Guest Login" provided in the e-Procurement portal. The link to e-Procurement portal has also been provided through OIL's web site www.oil-india.com.**

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ANNEXURE-II

Tender No& Date : SKI 1103 P14 DATED 12.09.2013

Performance Guarantee : Applicable

OIL INDIA LIMITED invites Indigenous tenders for items detailed below:

TECHNICAL SPECIFICATIONS WITH QUANTITY

SLNO & MATERIAL CODE NO.	MATERIAL DESCRIPTION.	QUANTITY	UNIT
10 ---------- **0C000451**	FLP ELECTRIC MOTOR DRIVEN CHARGING / RECIRCULATION PROGRSSIVE CAVITY SCREW PUMP SETS.	15	NO.
20	**Installation & Commissioning**	1	AU

Details Specification (Item 10):-

FLP ELECTRIC MOTOR DRIVEN CHARGING/RECIRCULATION PROGRSSIVE CAVITY PUMPSETS FOR VARIOUS OCSs

1.0 PUMP:
1.1 Type : Positive Displacement Screw Pump
(Progressive cavity pump)

1.2 Service: Continuous

NOTE: #Continuous duty# means pump having service operation on full load for a period of 8 hours to 24 hours per day.

1.3 Maximum Capacity: 25 CuM / hour

1.4 Maximum Working Pressure: 6kg/cm2

1.5 Mechanical Efficiency: 60 % (Min)

1.6 Volumetric Efficiency: 90 % (Min)

1.7 Suction Condition: Flooded Suction

1.8 Pumping Temperature: 30-70 Deg C

1.9 NPSH(R)(Mts.): 4.0 Mtr.

1.10 Liquid to be handled: Crude oil with following characteristics:

a) Viscosity: 10-70 cps at 30 Deg C
b) Water content = 0-80%
c) Salinity = 2000-4500 PPM
d) PH = 7.0-7.5
e) API Gravity at 60 Deg F = 30
f) Sand Particle- Traces

1.11 Construction Features:

Pump Casing - Cast Iron as per IS 210 FG 220
Bearing Housing # Cast Iron as per IS 210 FG 220
Stator- Hi Nitrile Black/ NEMOLAST-S61T
Rotor- Stainless Steel AISI -316 HCP
Shaft- AISI-316 HCP

1.12 Suction Size: 100mm (Top)

1.13 Delivery Size: 100mm (End)

1.14 Type of Drive: Directly Coupled (Suitable flexible coupling should be fitted on the shaft so that it can be directly coupled with the existing motor)

1.17 The pump should be suitable for running in both the direction for flushing the pump.

1.18 Provision for limit switch device (pump body mounted) should be provided at the suction side & a pressure switch at the discharge side of the pump to prevent the pump from dry running and high discharge pressure respectively. Including supply of limit switch and pressure switch.

2.0 PRIMEMOVER:

The pump shall be directly coupled with suitable 415 V, 3 Ph, 50 Hz FLP Electric Motor. and shall meet the following:

2.1 DETAILS OF MOTOR:

The motor shall have the following specifications.

Type :

1. The motor shall be 3 phase, squirrel cage, AC Induction motor conforming to BIS 325 & BIS 2148.
2. The motor shall be FLAMEPROOF type, suitable for installation in Zone 1 and 2 Hazardous areas of oil mines and Group IIA and IIB type gas. The motor shall be certified by CIMFR (Central Institute of Mining and Fuel Research) or any government approved, NABL accredited test laboratory and approved by Director General of Mines Safety (DGMS), Government of India.

Rated output: Approx 12.5 hp (The motor rating shall be so designed that it is minimum 15% higher than the respective absorbed power required for full rated capacity load handling).

Enclosure	:	FLP, TEFC with Degree of protection IP55
Insulation	:	Vacuum pressure impregnated, Class F with winding temperature rise limited to value specified for class B insulation
Cooling	:	Self air cooled through internal bi-directional fan of motor
Site Condition	:	Suitable for 45 Deg C max, 5 Deg C min, 150 m Alt, 95% RH
Voltage	:	Motor shall be suitable for 415 +/- 10% volts, 3 Phase, 50 cycles, AC supply and should withstand high voltage fluctuation.
Frequency	:	50 Hz +/- 3%
No of phases	:	Three
RPM	:	To match driven load Duty: Continuous (S1)
Mounting	:	Horizontal, foot mounted
Bearing	:	Ball/Roller bearing at DE & NDE
Type of Drive	:	Direct Coupled
Rotation	:	Bi-directional
		Starting: DOL for motors up to 12.5 HP; YD for motor above 12.5 HP including supply of applicable starter.
Switching	:	15 Starts /Hr
Terminal Box	:	FLP Cable termination box with brought out terminals suitable for terminating PVCA aluminium cables of proper size as per rating of motor and cable entry holes (01 no. for DOL; 02 nos. for YD starter). The brought out terminals shall be of brass and mounted on non-hygroscopic insulation (FRP or DMC) suitable for tropical climate.
Glands	:	Adequate nos. (depending on type of starter) of FLP, weatherproof, heavy duty nickel plated brass/SS glands shall be supplied with the motor. The FLP glands shall be suitable for installation in Zone 1 Hazardous area of oil mines and Group IIA and IIB type gas. The glands shall be certified by CIMFR (Central Institute of Mining and Fuel Research) or any government approved, NABL accredited test laboratory.
Earthing	:	Two nos. of earthing studs to be provided on the motor body. Earthing system for the motor shall be as per the IS: 3043.
Lifting Eye	:	One no. lifting hook shall be provided for lifting the motor.
Markings	:	Name plate details with name of manufacturer, frame size, rated voltage, rated output, current, frequency, type of duty, class of insulation, no. of phases, speed in rpm at rated output, degree of protection, winding connections, ambient temp, bearing sizes, lubricant, lubrication material and year of manufacture - CIMFR (or other certifying authority) certification details - DGMS approval details

- DGMS logo on a separate metal plate duly riveted on the motor body at a conspicuous place

Paint	:	Two coats of DA grey paint Ref. BIS: IS 325, IS 2148, IS 5572, IS 9570 with latest amendments
Make	:	Bharat Bijlee/ Crompton Greaves/ KEC/ Siemens/NGEF.

2.2 GENERAL NOTES ON MOTOR:

1. Motor shall be tested as per BIS and routine and type test certificates shall be furnished with the supply. The CIMFR certificate no. and DGMS approval no. shall be affixed or embossed on each piece of equipment.
2. The FLP motor and the FLP gland(s) must be suitable for installation in Zone 1 area and Group IIA and IIB type gas of oil mines. These must be certified by CIMFR (Central Institute of Mining and Fuel Research) or any government approved, NABL accredited test laboratory. The FLP motor MUST BE approved by Director General of Mines Safety (DGMS), Govt. of India. Copies of certification for the motor as well as the glands and valid DGMS APPROVAL for the motor must be furnished with the offer.
3. The motor(s) shall be guaranteed for 1 (one) year from the date of supply. Guarantee cards shall be duly signed and stamped by the supplier and shall be provided along with the supply.

2.3 DETAILS OF STARTER PANEL:

Specifications for the starter:

A. General notes on the starter:

I. The starter shall be placed inside safe area and hence FLP enclosure is not required for the starter. Neutral shall not be used, as the source (generator) shall be grounded with high resistance.
II. Starter shall be Direct-on-line or fully automatic star-delta type, depending on the motor rating; for motor rating above and including 12.5 HP, star-delta starting shall be used.
III. Starter shall be self mounting on sturdy angle iron frame. Mounting frame and enclosure of the starter panel shall have specifications as follows:

a) Panel shall be sheet steel clad, cubicle type, made of 2.0 mm thick MS CR sheet. It shall be suitable for operation from the front. Panel shall be dust /vermin proof and weatherproof (IP 55). Ventilation louvers shall be provided on both sides; however, louvers shall be shielded with fine wire mesh (inside the panel). Special non-deteriorating Neoprene rubber gaskets shall be provided between all joints. Panel door shall be provided with single turn latches for opening / closing and locking arrangement. Danger plates shall be fitted on front and back of the panel. Bottom detachable gland plates made from 3.0 mm thick MS CR sheet shall be provided for all cable entries. Height of bottom detachable gland plate shall be 450 mm from floor level.

b) The entire metal work shall be treated with minimum nine tank anti-rust/anti-corrosion treatment as per IS and then powder coated in DA Grey color. Painting thickness shall be minimum 50 micron.

c) Internal earthing shall be provided for all equipment having earthing terminal and panel doors with suitably rated, PVC insulated, flexible copper earth wires or copper braids of suitable rating as per IS. Earthing terminals of the components

shall be suitably connected to an earth bus inside the panel. The earth bus shall be connected to the panel at two places with suitable GI hardware. Double earthing studs on two sides(both inside and outside) complete with suitably sized zinc plated & passivated double nuts and spring washers shall be provided on the panel.
d) The size of the panel shall not be more than 400mm (W) x 400mm (D) x 600mm (H). Total height of the starter including stand shall not exceed 1200 mm.
e) The frame of the panel shall be sufficiently strong, welded structure of suitably sized MS angle/channel of sufficient strength with vibration dampers. The frame shall be mounted on a bottom structure made from suitably sized MS channel, with provision for grouting.
f) Panel shall be designed for Ambient of 45°C (Max)/ 5°C (Min) and Humidity- 95% (Max).
g) Panel shall conform to IS: 8623 and IS: 13947.

IV. Bus bars/bus links of main power connections shall be 100 A (or above) tinned copper bars.
V. The starter control shall have remote start/stop capability (with push button station near the motor). However, one local/remote selector switch shall also be provided in the starter so that the pump can be started in local mode, if required. Push button station is not included in the scope of supply.
VI. Starter shall have adequate nos. of potential free NO/NC contacts for interlocking/ instrumentation.
VII. Starter shall have Type '2' Co-ordination, breaking capacity 50 kA at 415 V, 3 phase, 50 Hz as per Standards IEC 60947-4-1, IS: 13947 (Part 4/Sec. 1), EN 60947-4-1
VIII. Protection: The starter shall have the following minimum (but not limited to) protections:

a. Short Circuit (in-built in the MCCB)
b. Overload through Thermal bi-metallic overload relay
c. Earth-leakage: EL protection shall be provided with separate CBCT & ELR. The EL relay shall have indication LEDs, test push button, reset push button and shall be duly wired up to trip starter in case of earth leakage.

IX. Metering & indication: The panel shall have meters and indication for the following information. HRC Instrument Fuse Holders with suitably rated HRC fuses shall be used for the circuitry:

a. Motor current (through Y phase only) in single phase digital ammeter with properly rated CT
b. Indications: LED type indicating lamps with complete fittings, with legend plate for "Motor On", "Motor Off", "Motor Trip on Fault"

X. Control cable size shall be 2.5 mm2 for CT circuits, 1.5 mm2 for others. Cable terminals shall be provided with suitably sized crimping lugs. All cables shall be 660/1100 V graded PVC insulated multistranded FR copper cable. CT wiring shall be terminated with ring type lugs. Wires shall be properly marked with coloured and numbered ferrules. All wires shall have ferrule numbers for proper identification.
XI. Tinned copper brought out terminals shall be provided for all cable connections including terminals for remote push buttons and shall be supplied with tinned copper crimping lugs for each conductor of all cables.

XII. Legend plates (engraved aluminium, riveted) for the indication lamps, meters, control switches / buttons and labels for the terminals shall be provided.
XIII. Sufficient space shall be provided in the starter for cable termination, dressing and connecting cable leads to the brought out terminals.
XIV. Suitable cable entry arrangement with detachable gland plates and adequate nos. of single compression, heavy duty nickel plated brass/SS glands shall be provided for terminating of 1 no. incoming and 2 nos. outgoing (gland sizes as per capacity of motor rating) 4 core, PVCA, aluminium cables including cables for remote push buttons (3x2.5 sq mm, PVCA Cu.). All cable entries shall be from bottom and detachable gland plate for all cable entries shall be at a min. height of 450 mm from floor level. The sides of the cable entry box shall be parallel and not tapered.

B. Components:

I. Incomer MCCB, (rating shall be according to motor) with adjustable (4 In-10 In) magnetic trip unit, 3P, 415 V AC, 36 kA breaking capacity with direct rotary handle- 01 no.
II. 3 Pole contactors, AC3 normal life rating (rating shall be according to motor rating), with 24 V (or 30 V maximum) AC coil & 4NO+4NC contacts- 01 no. (DOL)/03 nos. (Star/delta)
III. Mechanical interlock for star/delta contactors
IV. Thermal overload relay, range as per motor rating, direct mounting on MC contactor (as per manufacturer's listed product)
V. Pilot relay, contactor type with 3 CO contacts, contacts sufficiently rated
VI. Electronic Timer with 1 NO + 1 NC Contacts, (0-30) seconds
VII. Single phase digital ammeter, CT operated
VIII. CT for ammeter 50/5- 01 no. in yellow phase
IX. Fuse holder 1 pole- as required
X. HRC Fuse link cylindrical 415 VAC, 80 KA fault level- Qty. as required
XI. Control transformer single phase for contactors and PBS supply, 415/24 (or 30 V maximum) VAC, 100/550 VA (rated/inrush)
XII. RCCB 2 pole for control circuit including PBS earth leakage protection, rating 25 A, 300 mA
XIII. "Motor fault" lamp LED type - Yellow size 22.5 mm
XIV. "ON" lamp LED type - Red Size 22.5mm
XV. "OFF lamp LED type- Green Size 22.5 mm
XVI. Core balance current transformer in the outgoing cable from MCCB
XVII. RCD for earth leakage tripping. Trip setting 0 mA to 3 Amps adjustable in preferred steps of 50/100mA steps. Time delay setting 0 to 5 s adjustable in preferred steps of 50/100ms
XVIII. Power/ Control cable- as required
XIX. Cable terminals & accessories- as required
XX. Control TB: DIN Channel mounted
XXI. Power TB: Stud type 4 pole

C. Makes of Components:

I. MCCB: Merlin Gerin / Legrand / Siemens/ ABB
II. HRC Fuses / Fuse Holders: GE
III. Contactors: Siemens / GE India / ABB/ Telemechanique (Schneider Group)
IV. OLR: Siemens / GE India /ABB/ Telemechanique (Schneider Group)

V. Electronic Time Delay Relay: Siemens / GE India / Telemechanique (Schneider Group)
MCCB, Contactors, overload relay and timer shall be of same make and shall be properly coordinated for maximum protection.
VI. PBS: Siemens / L&T
VII. Ammeter: Automatic Electric/Conzerv Pvt Ltd.
VIII. LED Type Indication Lamps: Vinay / Technik/Siemens/L&T/ABB
IX. CTs: Kappa/ AE
X. Earth Leakage Relay: Merlin Gerin / Legrand/Prok DVS
XI. Local/Remote selector switch: Siemens / L&T/ Kaycee/ Salzer
XII. RCBOs /MCBs /RCCBs: Legrand /Merlin Gerin /Siemens
XIII. Terminal Blocks / DIN Channel: Connectwell /Tosha
XIV. Wiring Cables: Finolex /Havell
XV. Lugs: Dowell/3D

2.4 DOCUMENTS:

1. Bidder shall furnish every detail of the electrical items in their offer as per the above specifications IN THE SAME ORDER. All of the above shall form part of the order. Hence any deviations must be clearly mentioned which shall be scrutinized for acceptability. Specific type and make of components should be mentioned clearly. No deviation shall be allowed at the time of supply and in such case the order will be cancelled without any liability to OIL. In case of such cancellation OIL may recover from the bidder the cost incurred by OIL in processing the tender till the time of cancellation.

2. All electrical items shall be procured from OEM or their authorized dealers only. In case of dealers, copies of valid dealership certificates shall be furnished with the offer without which the offers shall not be considered for evaluation.
3. The following documents shall be submitted with the offer
   # GA and dimensional drawing of all electrical equipment
   # Component layout diagram of the starter panel
   # Power and control circuit diagrams of the starter panel
   # Bill of materials and technical details of various components of the Starter Control Panel
   # Technical details of the Motor
   # Copies of CIMFR etc. certificates and valid DGMS approvals
   The successful bidder shall obtain OIL's approval for the following drawings:
   a. GA and dimensional drawing of all equipment
   b. Power and control circuit diagrams of the starter panel
   c. BOM of the starter panel
   Manufacturing of the unit is to be started only after written approval of the drawings by OIL.
4. Four bound sets of the following documents, shall be submitted with the supply
   # Approved GA and dimensional drawing of all equipment
   # Approved Power and Control circuit diagrams
   # Bill of materials with technical details of various components of the Starter Control Panel
   # Technical details of the Motor
   # Copies of CIMFR etc. certificates and valid DGMS approvals for flameproof items
   # List of recommended spares for two years
   # All test certificates
   # Guarantee Certificates

5. One laminated copy of the approved power & control circuit drawing shall be pasted inside of the front door of the Starter Control Panel.

2.5 TRANSPORTATION:

During transportation all electrical equipment are to be suitably packed to avoid water ingress and transit damage.

3.0 DRIVE ARRANGEMENT:

Pump directly coupled with motor through love-joy flexible coupling. Type & model of the coupling should be supplied along with the offer.

4.0 OPERATING SITE CONDITIONS:

The pump set should be suitable for operation at the following conditions:

Ambient Air temperature (Max.): 41 degree C
Ambient Air temperature (Min.): 6 degree C
Maximum relative humidity at 41 degree C: 70%
Altitude above sea level: 150 m
Average annual rainfall: 350 cm

5.0 SKID:

All items detailed in Para 1, 2 are to be coupled with love-joy coupling & be mounted on a oil field type 2 runner skid. The size of the skid should be rigid to withstand vibration of the unit and large enough to provide sufficient working space around the pump set. The skid should be suitable for self loading purpose.

6.0 Certificates and Documents to be forwarded:

I. The following documents should be forwarded along with the quotations:

i. Product line catalogue, specifying materials of construction and constructional features of the offered pump and technical literatures of all ancillary equipment.
ii. Performance chart of the pump including all technical calculations such as horse power, volumetric efficiency, mechanical efficiency, RPM, NPSH requirement, etc.
iii. Technical calculation for offering the electric motor and starter with respect to the pump offered.
iv. Complete technical details of pumps, electric motor, starter, coupling etc.
v. A schematic layout of the master skid showing the electric motor, pump and all other components of the pump set.
vi. A declaration from the supplier that the spare parts will be available with them for any emergency purchase or regular consumption of spares for at least 10(Ten) years after placing the formal order.
vii. For foundation design during installation of the complete pump-set, the following information are to be supplied:-

a) Dynamic load
b) Static load
c) Unbalanced load

II. The following documents shall have to be forwarded within a month of issue of LOI or placement of firm order

Foundation diagram for the complete pump set indicating the static and dynamic loads of the package.

GA and dimensional drawing of all equipment
Power and control circuit diagrams of the starter panel
BOM of the starter panel

III. The following documents must be forwarded along with the supply of equipment

i. Certified test results
ii. Certificate of hydrostatic testing
iii. Manufacturers certificate of authenticity
iv. Certificate of test / conformance of pump etc.
v. Operation and maintenance manuals, parts lists of pump, motor, starter and all other accessory equipment.

7.0 SPARE PARTS:

Spares for 2(Two) years normal operation of the electric motor, pump, starter and its accessories should be included in the offer. Bidder should indicate the manufacturers' Part Nos. for each part of pump, electric motor, starter and its accessories along with the suppliers# own Part No., if any.

Bidders have to provide the price along with the part numbers of the spares that they envisage shall be required for maintenance of the pump set for 2(Two) years . The prices of these spares shall be considered during commercial evaluation of the offer. The same may be uploaded in the 'Technical Rfx /Notes and attachment' with all details such as item, part no., unit rate etc.

8.0 TOOLS:

1 (One) Set Special tools for maintenance of each pump

9.0 INSPECTION & TESTS:

a) The plant and materials may be subjected to inspection during manufacture at the purchaser's discretion, but such inspection shall not relieve the supplier of his responsibility to ensure that the equipment supplied is free from all manufacturing and other defects and conform to correct specifications. The supplier will be notified in advance, if it is intended to inspect plant & materials.

b) Except where otherwise agreed the test called for in this specification shall be carried out in the presence of the purchaser or his representative appointed for the purpose and to his satisfaction. All appliances, apparatus, labor etc. necessary for the test shall be provided by the supplier at his cost.

c) Pre dispatch inspection will be carried out by OIL at the works of the manufacturer. The complete unit mounted on the skid would be inspected by OIL's engineer. The unit would be load tested at rated pressure and capacity at supplier's factory before dispatch. Accordingly supplier should inform us well in advance. All tests are to be performed as per ISO: 10000 quality products.

10.0 MATERIAL TESTS, CERTIFICATES:

The supplier shall submit for approval, particulars of all test pieces proposed to be taken from the castings or forging subjected to high pressure and also of highly stressed parts. The purchaser will state whether he intends to witness the tests on such pieces or is prepared to accept the supplier's test certificates.

Hydraulic tests : Before being dispatched from the suppliers# works all castings/forging and valve shall be hydraulically tested to at least twice their normal working pressure for a period of 30 minutes and certificate thereof should be made available to the purchaser.

11.0 PACKING, PAINTING AND PROTECTION:

Packing shall be sufficiently robust to withstand rough handling during shipment and up country journey. All items shall have their respective identification letters or numbers painted on them and they shall be suitably packed to provide ease of handling and storage and maximum protection during transport and storage period. Crates and boxes shall have a list of items contained therein secured to the exterior by piece of an enveloping piece tin sheet nailed to the wood. A duplicate list shall also be included inside, with the contents, sling points shall be clearly indicated on the crates.
Internal parts shall be sprayed with an inhibitor water splitting preservative and all openings shall be covered with masking tape to prevent ingress of water.

COMMISSIONING:

The pump sets shall have to be commissioned at site by competent personnel deputed by the bidder for the same. OIL shall provide necessary local transportation , within its operational area for the commissioning personnel to and from site.

12.0 AFTER SALES SERVICE:

The nature of after sales services, which can be provided by the supplier during initial commissioning as also in subsequent operation should be clearly stated. It should be confirmed that spares for the engine/pump and its accessories offered would be available for at least 10 years after delivery of the material.

13.0 DATA SHEET:

A. DATA SHEET (PUMP)

MAKE
MODEL
PUMP TYPE
SERVICE
LIQUID HANDLED
OFFERED RATED SPEED
OFFERED RATED PRESSURE
DISCHARGE VOLUME@OFFERED SPEED (Vol. Effi. = 93%)
APPROX HP REQUIREMENT AS PER NIT PARAMETERS
NPSH REQUIRED
PUMPING TEMPERATURE
COUPLING TYPE
MATERIAL OF CONSTRUCTION
PUMP CASING
BEARING HOUSING
ROTOR

STATOR
SHAFT

B. DATA SHEET (MOTOR)

MAKE
MODEL
TYPE
RATED SPEED
REFERENCE OF STANDARDS
MOTOR RATING (KW)
NUMBER OF PHASES
TYPE OF ENCLOSURE
POWER INPUT TO PUMP AT DUTY POINT (KW)
METHOD OF STARTING
BEARING TYPE AT POWER END
BEARING TYPE AT NON-DRIVE END
METHOD OF COOLING
DUTY
TYPE OF CONSTRUCTION
CLASS OF INSULATION
UNIDIRECTIONAL OR BIDIRECTIONAL ROTATION
SYSTEM OF EARTHING

C. DATA SHEET (STARTER)

STARTER COMPONENTS: MCCB, CONTACTORS, OVERLOAD RELAY, CBCT, EARTH LEAKAGE RELAY, TRANSFORMER, RCBO, INDICATION LAMPS ETC. DETAILS-MAKE, MODEL, RATING ETC.

14.0 TECHNICAL CHECK LIST

1. Whether quoted as OEM of Pump and whether documentary evidences submitted? **YES/NO**
2. Whether quoted as authorised dealer of Pump and whether documentary evidences submitted? **YES/NO**
3. Whether quoted as OEM recommended assembler of Pump sets and whether documentary evidences submitted? **YES/NO**
4. Whether the offered Pump is Positive Displacement Screw Pump? **YES/NO**
5. Whether the Pump is designed for continuous service duty? **YES/NO**
6. Whether the offered Motor conforms to IS Standard with latest amendment as per specifications? **YES/NO**
7. Whether the power for normal working condition is as per NIT? **YES/NO**
8. Whether the motor meets NIT criteria? **YES/NO**
9. Whether the pump is having Capacity & Pressure as per NIT? **YES/NO**
10. Whether the pump meets materials of construction as per NIT? **YES/NO**
11. Whether the floor of the two runner skid shall be covered by checkered plates? **YES/NO**
12. Whether the skid is rigid enough to withstand vibration of the unit and suitable for self loading purpose? **YES/NO**
13. Whether dry run protection device shall be provided as per NIT? **YES/NO**

14. Whether the two years spares for the packages indicated have been quoted? **YES/NO**
15. Whether special tools and commissioning spares have been included in the scope of supply? **YES/NO**
16. Whether spares shall be available for 10 years after supply of equipment? **YES/NO**
17. Whether separately highlighted any deviation from the technical specifications? **YES/NO**
18. Whether the Pre-dispatch inspection of the Pump packages shall include Full Load Performance test of the Pump Sets? **YES/NO**

Order Ref ---------- Dated----------
OIL#s Tender No.---------- Signed----------
For & behalf of ---------- Designation----------

Payment : Payment shall be made to the supplier as follows :

a. **70% of the cost of the equipment shall be paid against dispatch documents of the main equipment provided the DGMS approval copy for all field instruments are submitted along with the dispatch documents. The DGMS approval copy has to be valid for a period of minimum six months from the date of dispatch of the respective item. Balance 30% of the equipment cost along with the commissioning charges shall be paid after successful commissioning of the entire equipment.**

b. **If any item is dispatched with DGMS field trial permission copy then only 50% payment with respect to value of that item will be released on delivery of that item and the remaining amount will be paid only after providing the valid DGMS approval against that particular item. Balance 50% of material value along with the installation and commissioning charges, if any, to be released only after successful commissioning and after obtaining DGMS Certificate of the equipment. A system will be considered as successfully commissioned only after obtaining valid DGMS approval for all the constituent equipment/instruments of the system.**

BID EVALUATION CRITERIA/BID REJECTION CRITERIA

The following BRC/BEC will govern the evaluation of the bids received against this tender. Bids that do not comply with stipulated BRC/BEC in full will be treated as non responsive and such bids shall prima-facie be rejected. Bid evaluation will be done only for those bids that pass through the "Bid Rejection Criteria" as stipulated in this document.

Other terms and conditions of the enquiry shall be as per General Terms and Conditions vide MM/CALCUTTA/E-01/2010 for E-Procurement LCB Tenders. However, if any of the Clauses of the Bid Rejection Criteria / Bid Evaluation Criteria (BRC / BEC) contradict the Clauses of the tender or MM/CALCUTTA/E-01/2010 elsewhere, those in the BRC / BEC shall prevail.

(I) BID REJECTION CRITERIA (BRC) :

TECHNICAL :

The bids must conform to the specifications and terms and conditions given in the tender. Bids shall be rejected in case the item(s) offered do not conform to the required minimum/maximum parameters stipulated in the technical specifications and to the respective international / national standards wherever stipulated. Notwithstanding the general conformity of the bids to the stipulated specifications and terms and conditions, the following requirements shall have to be particularly met by the bidders, without which the offer will be considered as non-responsive and rejected :

a) The bidder should be an OEM of pump

b) The Bidder other than OEM must be an authorized dealer of OEM of pump. If the bidder is an authorized dealer of pump, necessary documentary certificates from the OEM must be submitted along with the offer. The purchase documents from the OEM must be submitted along with the supply of pump sets. The bidder must furnish the following undertaking from the OEM:-

#Date of manufacture, make, model, test certificate, literatures and part books of the pump will be supplied if order is placed on us#

c) The bidder must purchase the Electric motor from the OEM or authorized dealer of OEM of Electric motor. Necessary documentary certificates from the OEM or authorized dealer of OEM of Electric motor must be submitted along with the offer. The purchase documents from the OEM or the authorized dealer must be submitted along with the supply of pump sets. The bidder must furnish the following undertaking from the OEM or authorized dealer -

#Date of manufacture, make, model, test certificate, literatures and part books of the Electric motor will be supplied if order is placed on us#

d) The bidder must furnish the experience certificate that he had successfully executed at least one purchase order of similar type of pump set in last 5 years from the bid openning date, Stating the following information

i) Capacity of each supplied pump set

ii) The name of clients to whom these pump sets are supplied and with certificates that these are running satisfactorily at the time of submission of the offer

e) The bidder must have after sales service facility and must submit bases of service center with list of service personals to attend the equipment in case of breakdown, provision of supply of spares etc.

f) The bidder must undertake the equipment to be supplied are not obsolete for next 10 years and provision for supplying spares of the equipment to be continued.

The bidder who are not supplying the above information will be rejected and no further correspondence will be made.

B:COMMERCIAL

i). **Bid security of Rs 41,000.00** shall be submitted manually in sealed envelope superscribed with BID SECURITY AGAINST Tender no. **SKI 1103P14** **Head Calcutta Branch, Oil India Limited,4 , India Exchange Place , Kolkata-700001** only

on or before the Bid Closing Date and Time mentioned in the Tender. **If bid security in ORIGINAL of above mentioned amount is not received within bid closing date , the bid submitted through electronic form will be rejected without any further consideration.** For exemption for submission of Bid Security, please refer relevant para of General Terms and Conditions vide MM/CALCUTTA/E-01/2010 for E-Procurement LCB Tenders. **The Bid Security shall be valid for six month from the date of bid opening.**

i). The prices offered will have to be firm through delivery and not subject to variation on any account. A bid submitted with an adjustable price will be treated as non-responsive and rejected.

ii). Successful bidder will be required to furnish a **Performance Bank Guarantee** @10% of the order value. For exemption for submission of Performance Bank Guarantee, please refer relevant para of General Terms and Conditions vide MM/CALCUTTA/E-01/2010 for E-Procurement LCB Tenders. The Performance Bank Guarantee must be valid for one year from the date of successful commissioning of the equipment or 18 months from the date of despatch whichever is earlier. **Bidder must confirm the same in their bid. Offers not complying with this clause will be rejected.**

The validity requirement of Performance Security is assuming despatch within stipulated delivery period and confirmation to all terms and conditions of order. In case of any delay in despatch or non-confirmation to all terms and conditions of order, validity of the Performance Security is to be extended suitably as advised by OIL.

iii). The Bank Guarantee should be allowed to be encashed at all branches within India.

iv). Bids received after the bid closing date and time will be rejected. Similarly, modifications to bids received after the bid closing date & time will not be considered.

v). Validity of the bid shall be minimum 120 days from the Bid Closing Date. Bids with lesser validity will be rejected.

vi). Bids containing incorrect statement will be rejected.

vii). All the Bids must be Digitally Signed using "Class 3" digital certificate *(e-commerce application)* as per Indian IT Act obtained from the licensed Certifying Authorities operating under the Root Certifying Authority of India (RCAI), Controller of Certifying Authorities (CCA) of India. The bid signed using other than "Class 3" digital certificate, will be rejected.

2.0 BID EVALUATION CRITERIA (BEC):

A. TECHNICAL:

The bids conforming to the technical specifications, terms and conditions stipulated in the bidding document and considered to be responsive after subjecting to Bid Rejection Criteria (BRC) will be considered for further evaluation as per the Bid Evaluation Criteria given below.

i) In the event of computational error between unit rate and total price, the unit rate as quoted by the bidder shall prevail.

ii) Similarly in the event of discrepancy between words and quoted figure, words will prevail.

B. COMMERCIAL:

i) To evaluate the inter-se-ranking of the offers, Assam entry tax on purchase value will be loaded as per prevailing Govt. of Assam guidelines as applicable on bid closing date. Bidders may check this with the appropriate authority while submitting their offer.

ii) To ascertain the substantial responsiveness of the bid OIL reserves the right to ask the bidder for clarification in respect of clauses covered under BRC also and such clarifications fulfilling the BRC clauses in to must be received on or before the dead line given by the company, failing which the offer will be summarily rejected.

Standard Notes:

A. The original bid security (Amount is mentioned above and also in Basic Data of the tender in OIL's e-portal) should reach us before bid closing date and time .Bid without original Bid Security will be rejected. The bidders who are exempted from submitting the Bid Bond should attach documentary evidence in the Collaboration folder as per General Terms and conditions for e-Procurement as per Booklet NO. MM/CALCUTTA/E-01/2010 for E-procurement (LCB Tenders).

B. All the Bids must be Digitally Signed using "Class 3" digital certificate *(e-commerce application)* only as per Indian IT Act obtained from the licensed Certifying Authorities operating under the Root Certifying Authority of India (RCAI), Controller of Certifying Authorities (CCA) of India. The bid signed using other than "Class 3" digital certificate, will be liable for rejection.

C. "General Terms & Conditions" for e-Procurement as per Booklet NO. MM/CALCUTTA/E-01/2010 for E-procurement (LCB Tenders).

D. **Offers should be valid for minimum 120 days from the date of Technical Bid closing Date, failing which offer shall be rejected.**

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OIL INDIA LIMITED
(A Government of India Enterprises)
4, India Exchange Place
Kolkata -1

TELEPHONE NO. (033) 222301657
FAX NO: (033) 22302596
Email: oilcalmn@dataone.in;oilcalmn@oilindia.in

FORWARDING LETTER

Tender No & Date	:	**SKI1103P14** **DATE: 12.09.2013**
Tender Fee	:	**Rs 1,000.00**
Bid Security Amount	:	**Rs 41,000.00**
Bidding Type	:	SINGLE STAGE COMPOSITE BID SYSTEM
Bid Closing on	:	As mentioned in the Basic Data of e-portal
Bid Opening on	:	As mentioned in the Basic Data of e-portal
Performance Guarantee	:	Applicable
Integrity Pact	:	Not Applicable
Delivery Required	:	**At DULIAJAN, ASSAM**

OIL invites Bids for

FLP ELECTRIC MOTOR DRIVEN CHARGING / RECIRCULATION PROGRSSIVE CAVITY SCREW PUMP WITH Installation & Commissioning (15 Nos.)

as per Annexure II through its E-Procurement site. The bidding documents and other terms and conditions are available at Booklet No. MM/CALCUTTA/E-01/2010. The prescribed Bid Forms for submission of bids are available in the Technical RFx -> External Area - > Tender Documents.

The general details of tender can be viewed by opeing the RFx [Tender] under RFx and Auctions. The details of items tendered can be found in the Item Data and detilas uploaded under Technical RFX.

The tender is invited with firm price for the specified quantity. Further details of tender are given below:-

1. Details of Items with Quantity and Unit of measure are as under:

SLNO & MATERIAL CODE NO.	MATERIAL DESCRIPTION.	QUANTITY	UNIT
10 ---------- **0C000169**	**FLP ELECTRIC MOTOR DRIVEN CHARGING / RECIRCULATION PROGRSSIVE CAVITY SCREW PUMP**	15	NO.
20	**Installation & Commissioning**	1	AU

The tender will be governed by:

a) "General Terms & Conditions" for e-Procurement as per Booklet NO. MM/CALCUTTA/E-01/2010 for E-procurement (LCB Tenders).

b) Technical specifications with BEC/BRC and Qty. as per **ANNEXURE II** .

c) The prescribed Bid Forms for submission of bids are available in the Technical RFx -> External Area - > Tender Documents.

d) In the event of receipt of only a single offer against the tender within B.C. date, OIL reserves the right to extend the B.C. date as deemed fit by the Company. During the extended period, the bidders who have already submitted the bids on or before the original B.C. date, shall not be permitted to revise their quotation.

e) Any sum of money due and payable to the contractor (including Security Deposit refundable to them) under this or any other contract may be appropriated by Oil India Limited and set-off against any claim of Oil India Limited (or such other person or persons contracting through Oil India Limited) for payment of sum of money arising out of this contract or under any other contract made by the contractor with Oil India Limited (or such other person or persons contracting through Oil India Limited).

f) Bidder are advised to fill up the Technical bid **CHECK LIST** and **RESPONSE SHEET** given in MS excel format in Technical RFx -> External Area - > Tender Documents. The above filled up document to be uploaded in the Technical RFX Response.

Special Note:

1.0 General Qualification Criteria:
In addition to the general BRC/BEC, following criteria on Bidders' Experience and their financial capabilities shall be considered (documentary

evidence to be provided along with the bid in Technical RFx -> External Area - > Tender Documents as on the Bid Closing Date:

a) **Bidder should have experience of successfully executing order of Rs 12.50 Lakhs during last 3 years as on the Bid Closing Date.**

b) **Annual financial turnover of the firm in any of the last 3 financial years or current financial year should not be less than Rs 41.00 Lakhs.**

2.0 Application showing full address / e-mail address with Tender fee (non-refundable) of ` 1000.00 per tender (excepting PSU and SSI units registered with NSIC) by Demand Draft in favour of M/s. Oil India Limited payable at Kolkata and to be sent to Head-Calcutta Branch, Oil India Limited, 4, India Exchange Place, Kolkata – 700 001. Application shall be accepted only upto one week prior to Bid Closing date. The envelope containing the application for participation should clearly indicate ""REQUEST FOR ISSUE OF USER ID AND PASSWORD FOR E TENDER NO **SKI 1103P14** for easy identification and timely issue of authorisation. On receipt of requisite tender fee and subject to fulfilment of eligibility criteria, USER_ID and initial PASSWORD will be communicated to the bidder (through-e-mail) and will be allowed to participate in the tender through OIL's e-Procurement portal. No physical tender documents will be provided. USER_ID AND INITIAL PASSWORD WILL BE ISSUED TILL ONE WEEK PRIOR TO THE BID CLOSING DATE.

3.0 Please note that all tender forms and supporting documents are to be submitted through OIL's e-Procurement site only except following documents which are to be submitted manually in sealed envelope super scribed with Tender no. and Due date to **Head-Calcutta Branch, Oil India Limited, 4, India Exchange Place, Kolkata – 700 001** only on or before the Bid Closing Date and Time mentioned in the Tender.
a) Original Bid Security
b) Detailed Catalogue (if any)
c) Any other document required to be submitted in original as per tender requirement
All documents submitted in physical form should be signed on all pages by the authorised signatory of the bidder and to be submitted in triplicate

4.0 Bidders are requested to examine all instructions, forms, terms and specifications in the bid. Failure to furnish all information required as per the NIT or submission of offers not substantially responsive to the bid in every respect will be at the bidders risk and may result in rejection of its offer without seeking any clarifications.

5.0 All the Bids must be Digitally Signed using "Class 3" digital certificate (e-commerce application) with organisation name as per Indian IT Act obtained from the licensed Certifying Authorities operating under the Root Certifying

Authority of India (RCAI), Controller of Certifying Authorities (CCA) of India.

6.0 Bidders must ensure that their bid is uploaded in the system before the tender closing date and time. Also, they must ensure that above documents which are to be submitted in a sealed envelope are also submitted at the above mentioned address before the bid closing date and time failing which the offer shall be rejected.

7.0 Bid must be submitted electronically only through OIL's e-procurement portal. Bid submitted in any other form will be rejected.

8.0 The tender shall be governed by the Bid Rejection & Bid Evaluation Criteria given in enclosed Annexure-II. However, if any of the Clauses of the Bid Rejection Criteria / Bid Evaluation Criteria contradict the Clauses of the tender and / or "General Terms & Conditions" as per Booklet No. MM/CALCUTTA/E-01/2010 for E procurement (LCB Tenders) to General Terms and Conditions for Indigenous E-Tender elsewhere, those in the BEC / BRC shall prevail.

9.0 To ascertain the substantial responsiveness of the bid OIL reserves the right to ask the bidder for clarification in respect of clauses covered under BRC also and such clarifications fulfilling the BRC clauses in toto must be received on or before the deadline given by the company, failing which the offer will be summarily rejected.

10. Please do refer the User Manual provided on the portal on the procedure How to create Response for submitting offer.

Yours Faithfully
Sd-
Dulal Bhattacherjee
Sr.Manager Materials
For Chief Manager- Materials
For Head-Calcutta Branch